```
!*************calcul des COP********************
!Rendement du cycle
!************************************************
wcom=10
print*,'wcom=',wcom

dp1=wcom/(h21-h11)
print*,'dp1=',dp1

dptot=0.07
print*,'dptot=',dptot

dpp=dptot/2
print*,'dpp=',dpp

dps=T*dpp
print*,'dps=',dps

dp2=dptot-dp1
print*,'dp2=',dp2

wboo=dp2*(h31-h131)
print*,'wboo=',wboo
```

```
 Qcond=((dp1*h21)+(dp2*h31))-((dptot)*h41)
print*,'Qcond=',Qcond


 print*,'T=',T

dp8=dptot-(dpp*(1+T))
print*,'dp8=',dp8

 dp14=(1+T)*dpp-dp2
print*,'dp14=',dp14


dp144=dp1-dp8
print*,'dp144=',dp144

Qeva=dp1*h11-((dp8*h81)+(dp14*h151))
print*,'Qeva=',Qeva


  Wtotal=wcom+wboo
         print*,'Wtotal=',Wtotal


Rend=Qeva/Wtotal

print*,'Rend=',Rend
```

end